

1600638

510(k) SUMMARY

JUN 1 8 2010

Date Prepared

March 4, 2010

Submitter's Name and DePuy Mitek, Inc.

Address:

a Johnson & Johnson company

325 Paramount Drive Raynham, MA 02767

Contact Person

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DePuy Mitek, Inc.

a Johnson & Johnson company

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Name of Medical Device

Classification Name:

Electrosurgical cutting and coagulation device

and accessories: 21 CFR 878,4400

Common/Usual Name:

Electrosurgical cutting and coagulation device

and accessories: Arthroscope

Proprietary Name:

VAPR® VUE™ Radiofrequency System

P50 Electrode P90 Electrode CP90 Electrode

CP90 Electrode with Handcontrol

FDA Classification:

11

FDA product code:

GEI

Predicate Device(s)

The proposed VAPR VUE Radiofrequency System is substantially equivalent to:

K041135: VAPRIIITM (May 10, 2004)

The proposed VAPR VUE Radiofrequency System is also similar to:

K031085: Gyrus SuperPulse Electrosurgical Generator (July 21, 2003)

The proposed Wireless Footswitch is substantially equivalent to:

- K083161: ConMed Linvatc Zen Wireless Footswitch
- K053510: Linemaster IR Wireless Footswitch System
- K033135: Stryker Wireless Universal Footswitch

The proposed P90 and CP90 Electrodes are substantially equivalent to:

- K002422: VAPR 90° Suction Electrode (August 31, 2000)
- K041135: VAPR LPS Electrode (May 10, 2004)
- K082643: VAPR Electrodes with Handpieces (December 19, 2008)

The proposed P50 Electrode is substantially equivalent to:

- K992876: The 2.3 Wedge Effect Electrode (September 24, 1999)
- K041135: VAPR LPS Electrode (May 10, 2004)
- K082643: VAPR Electrodes with Handpieces (December 19, 2008)

Device Description

The VAPR VUE Radiofrequency System is DePuy Mitek's next generation of VAPR Radiofrequency Systems. The system consists of a generator, wired or wireless footswitch and electrodes. The VAPR VUE generator was designed to provide comparable RF performance with legacy VAPR electrodes.

As with its predicate devices including the VAPR 3 generator, this electrosurgical system utilizes bipolar technology specifically designed to provide a range of arthroscopic surgical treatments including soft tissue ablation, contouring, cutting and coagulation and temperature control.

The VAPR VUE system offers five output types of operation: Vaporization (ablation), Coagulation, CP Vaporization (ablation), Blended Vaporization (ablation and coagulation) and temperature control coagulation. All types are present in the predicate device (VAPR3 generator) except the CP Vaporization (ablation).

The VAPR P50 and P90 Electrodes are an addition to the family of LPS Electrodes. These Suction Electrodes are soft tissue ablation and coagulation devices intended for use with the VAPR Electrosurgical Systems. They extend the utility of the system by removing bubbles created during activation from the operating site.

The VAPR CP90 Electrodes are identical in technological characteristics as the P90 electrode only it is intended to be run only off the VAPR VUE platform at pre-determined default settings specific for the device. The CP90 with Handcontrols offers the integration of handcontrol capabilities via three buttons molded on the existing one-piece handles. These

buttons control ablation, coagulation and the generator mode functions.

Indications for Use

The Mitek VAPR VUE Radiofrequency System is intended for resection, ablation and excision of soft tissue, and hemostasis of blood vessels in patients requiring arthroscopic surgery of the knee, shoulder, ankle, elbow and wrist.

The P50 and P90 Electrodes when used with Mitek VAPR Electrosurgical Systems are intended for resection, ablation and excision of soft tissue, and hemostasis of blood vessels in patients requiring arthroscopic surgery of the knee, shoulder, ankle, elbow and wrist.

The VAPR CP90 Electrodes when used with Mitek VAPR VUE Electrosurgical System is intended for resection, ablation and excision of soft tissue, and hemostasis of blood vessels in patients requiring arthroscopic surgery of the knee, shoulder, ankle, elbow and wrist.

Comparison to Predicate Device

This submission is intended to demonstrate that the VAPR VUE Radiofrequency System, P50, P90 and CP90 Electrodes are substantially equivalent to their legally marketed devices.

The Electrodes have been carefully compared to legally marketed devices with respect to intended use, essential components and material, performance specifications and technology characteristics. All of the electrodes which are the subject of this submission have the same Indications for Use and technology characteristics. Changes include:

- The P50 electrode is identical to its predicate with the exception of default power which falls within the generator specification.
- P90 and CP90 active tip and suction electrode material change.
- The CP90 Electrodes is provided with non- handcontrol version as well a handcontrol capability which uses the same fundamental technology as the wired footswitch.

The VAPR VUE Radiofrequency System has been compared to legally marketed devices with respect to intended use, performance and technology characteristic. The VAPR VUE has the same Indications for Use and technology characteristics.

Enhancements on the VAPR VUE generator include:

- CP output type
- Open the range of Peak power output

In addition safety and performance testing have been done to validate the performance and safety of the device. It has been demonstrated that these device modifications will not affect safety and effectiveness of the subject devices.

Safety and Performance

Verification of the VAPR VUE System and Electrodes includes electrical, software and performance tests to show that the device meets its product specifications over a range of operating conditions. Validation testing for the VAPR VUE includes testing to show the device meets user needs. Verification testing conform to the following Standards and Guidance documents:

TABLE 1 Standards & Guidance Documents

Standard/Guidance	Description			
EN 60601-1: 1995	Medical electrical equipment Part 1: General requirements for safety			
EN60601-2-2:2007	Medical electrical equipment Part 2-2: Particular requirements for the safety of high frequency surgical equipment			
EN60601-1-2: 2006	Medical electrical equipment Part 1-2: General requirements for safety - Collateral standard: Electromagnetic compatibility - Requirements and tests.			
EN 60601-1- 4/A1:2005	EN 60601-1-4/A1 2005 electrical equipment - Part 1-4: general rules of security - Collateral Standard: electrical systems programmable			
ISO 60601-1-4	Medical Electrical Equipment: Part 1-4 General requirements for collateral standard: Programmable electrical medical systems.			
ISO 62304	Medical device software-software life cycle process			
Guidance for the Content of Premarket Submission for Software Contained in Medical Devices: 2005				
General Principals of Software Validation; Final Guidance for Industry and FDA Staff: 2002				
Guidance Off-The-Shelf Software Use in Medical Devices: 1999				

Clinical Testing

No clinical studies are required to demonstrate safety and efficacy of the device in support of an application for premarket clearance. The VAPR

VUE Radiofrequency System and Electrodes do not differ from the predicate device in fundamental scientific technology or intended use.

Conclusion

Results of performance and safety testing have demonstrated that the modified device is suitable for its intended use.

Based on the indications for use, fundamental scientific technology, and comparison to the predicate devices, the VAPR VUE Radiofrequency System, along with the Premiere50, Premiere90 and CP90 Electrodes are shown to be substantially equivalent to the predicate devices under the Federal Food, Drug and Cosmetic Act.







Food and Drug Administration 10903 New Hampshire Avenue Document Control Room –WO66-G609 Silver Spring, MD 20993-0002

Depuy Mitek, A Johnson & Johnson Company % Ms. Susan Kagan Project Manger, Regulatory Affairs 325 Paramount Drive Raynham, Massachusetts 02767 JUN 1 8 2010

Re: K100638

Trade/Device Name: VAPR Electrodes

VAPR VUE Radiofrequency System including wireless footswitch and

electrodes

Regulation Number: 21 CFR 878.4400

Regulation Name: Electrosurgical cutting and coagulation device and accessories

Regulatory Class: II Product Code: GEI Dated: June 15, 2010 Received: June 17, 2010

Dear Ms. Kagan:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical

device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address E, MN DIN

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Director

Division of Surgical, Orthopedic

and Restorative Devices Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known):		
Device Name: VAPR Electrodes		
Indications for Use:		
for resection, ablation and excisi	on of soft tissue, he	APR Electrosurgical Systems are intended mostasis of blood vessels and coagulation ery of the knee, shoulder, ankle, elbow, and
Prescription UseX(Part 21 CFR 801 Subpart D)	AND/OR	Over-The-Counter Use (21 CFR 807 Subpart C)
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(Division Sign-Off)
Division of Surgical, Orthopedic, and Restorative Devices

510(k) Number ___

K100638

Indications for Use

510(k) Number (if known):		·	
Device Name: VAPR VUE Radiofr Electrodes	equency System in	cluding Wireless Foots	switch and
Indications for Use:			
The Mitek VAPR VUE Radiofreque soft tissue, hemostasis of blood vearthroscopic surgery of the knee,	essels and coagulat	ion of soft tissues in pa	ation and excision of atients requiring
The DePuy Mitek VAPR Electrodes intended for resection, ablation a coagulation of soft tissue in patier ankle, elbow, and wrist.	nd excision of soft t	issue, hemostasis of b	lood vessels and
Prescription UseX (Part 21 CFR 801 Subpart D) (PLEASE DO NOT WRITE BELOW	AND/OR / THIS LINE-CONT	Over-The-Counter U (21 CFR 807 Subpa INUE ON ANOTHER P	art C)
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